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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/742,470	12/21/2000	Nadim Joni Shah	JT-6 (7777*6)	8850

23416 7590 05/27/2003

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EXAMINER

VARGAS, DIXOMARA

ART UNIT

PAPER NUMBER

2859

DATE MAILED: 05/27/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Offic Action Summary

Application No.	09/742,470	Applicant(s)	SHAH ET AL.
Examiner	Dixomara Vargas	Art Unit	2859

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period f r Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on _____.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 9-16 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 9-16 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
.....Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) The proposed drawing correction filed on _____ is: a) approved b) disapproved by the Examiner.
.....If approved, corrected drawings are required in reply to this Office action.
- 12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
a) The translation of the foreign language provisional application has been received.
- 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____.

- 4) Interview Summary (PTO-413) Paper No(s). 18
5) Notice of Informal Patent Application (PTO-152)
6) Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 9-16 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential steps, such omission amounting to a gap between the steps. See MPEP § 2172.01. The omitted steps are: The specific imaging procedure being used (for example NMR or MRI or any other type of image procedure between all the possibilities), the procedure being performed with the detected data and the result of all the detection on processing steps.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 9-16 are rejected under 35 U.S.C. 102(b) as being anticipated by Mistretta et al. (US 5,830,143).

With respect to claim 9, Mistretta discloses a process useful for detecting the properties of an object using measurements within a spatial frequency space, process comprising: detecting a central area and a first areas of the spatial frequency space, the first area being a first distance from the central area, detecting the central area and second areas of the spatial frequency space,

the second areas being a second distance from the central area; detecting the central area and a third areas of the spatial frequency space, the third areas being a third distance from the central area (Columns 7-8, lines 65-67 and 1-28 respectively; Figures 5 and 6).

5. With respect to claim 10, Mistretta discloses the first, second and third areas of the spatial frequency space are spaced at different distances from the central area. (Figure 5).

6. With respect to claim 11, Mistretta discloses said areas that overlap cover a central region of the spatial-frequency space (Figure 6).

7. With respect to claim 12, Mistretta discloses the first, second and third areas of the spatial frequency space have higher spatial frequencies than the central area (Columns 7-8, lines 65-67 and 1-28 respectively; Figures 5 and 6).

8. With respect to claim 13, Mistretta discloses the first, second and third areas of the spatial frequency space extend substantially parallel to each other (Figure 5).

9. With respect to claim 14, Mistretta discloses elements of one of the first, second and third areas of the spatial frequency space form a disjunctive set (Figures 5 and 6).

10. With respect to claim 15, Mistretta discloses disjunctive set of elements extend substantially parallel to each other in the spatial frequency space (Figures 5 and 6).

11. With respect to claim 16, Mistretta discloses suppressing noise effects (Columns 4 and 11, lines 26-38 and 4-30 respectively).

Response to Arguments

12. Applicant's arguments with respect to claims 9-16 have been considered but are moot in view of the new ground(s) of rejection.

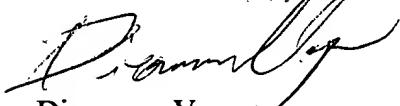
Conclusion

13. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The additional prior art cited at the PTO 892 discloses different NMR imaging procedures wherein segmented K-space is being acquired.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dixomara Vargas whose telephone number is (703) 305-5705. The examiner can normally be reached on 8:00 am. to 4:30 pm..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diego Gutierrez can be reached on (703) 308-3875. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-3432 for regular communications and (703) 305-3432 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-0956.



Dixomara Vargas
Art Unit 2859
May 21, 2003



Diego Gutierrez
Supervisory Patent Examiner
Technology Center 2800